

TRUSTED COMPUTING ENVIRONMENT - (TCE)

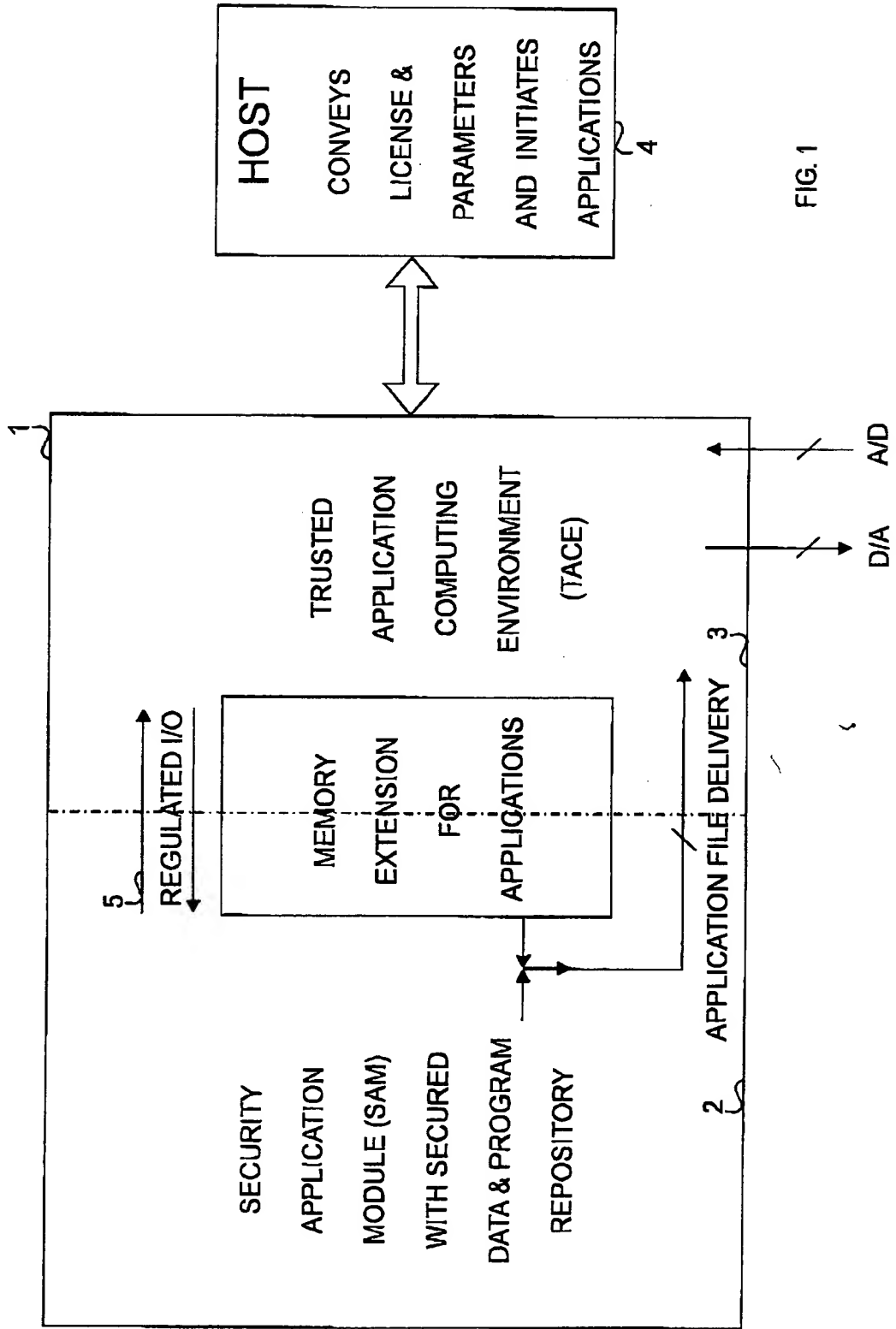
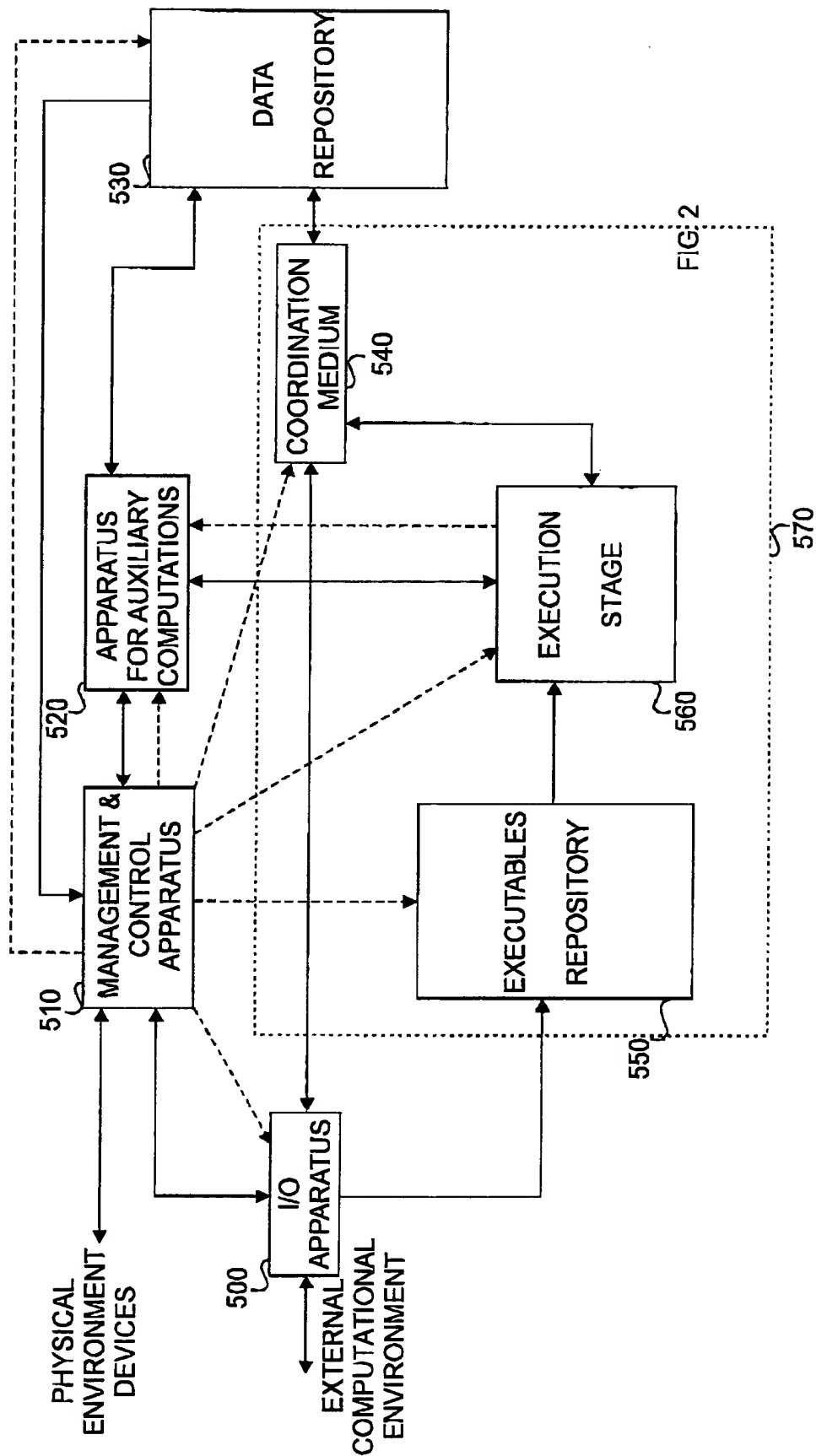


FIG. 1

# ARCHITECTURE OF A SECURE DATA MODULE



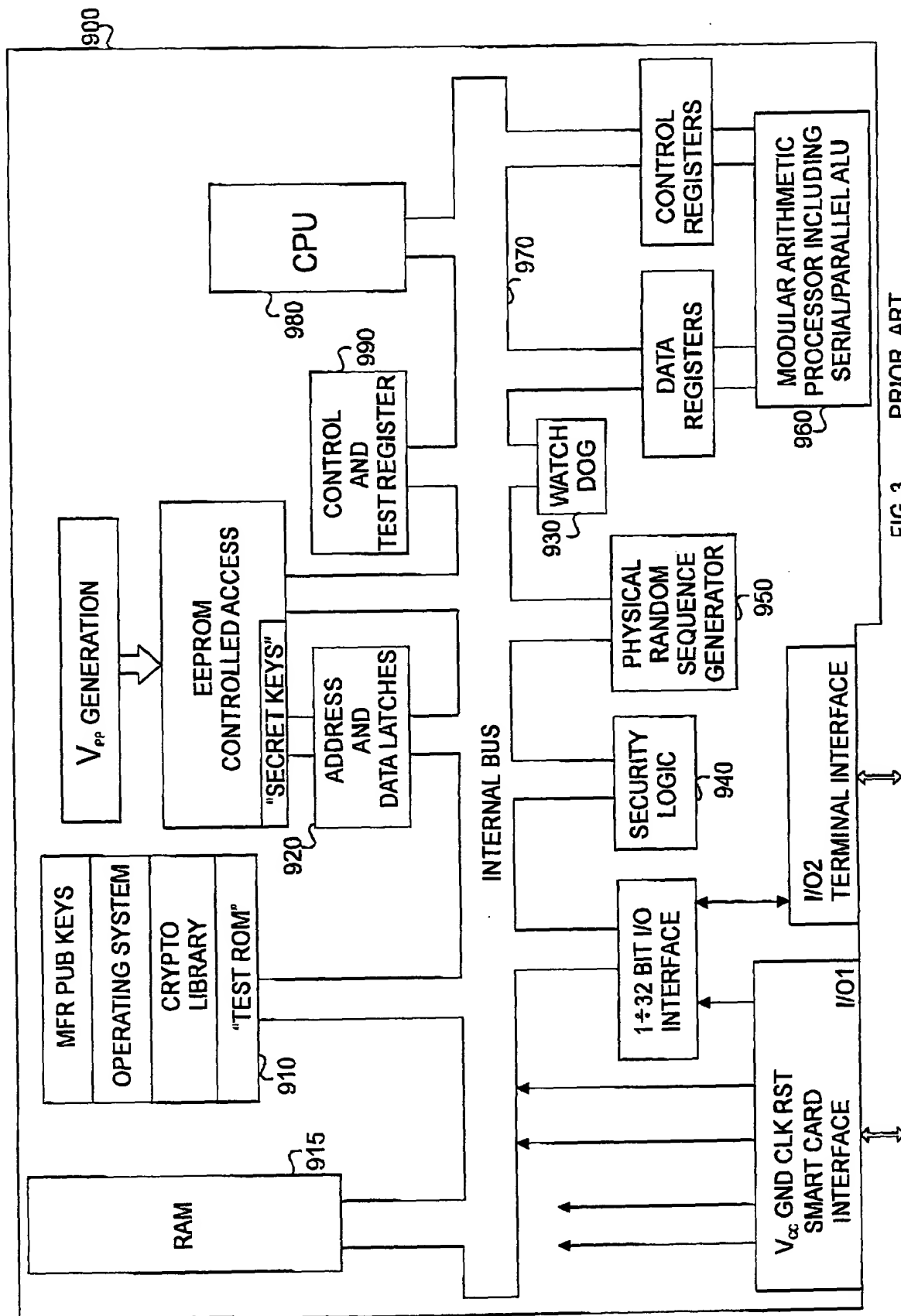


FIG. 3 PRIOR ART



# ENCAPSULATED SECURITY APPLICATION MODULE - SAM APPLICATION ENVIRONMENT

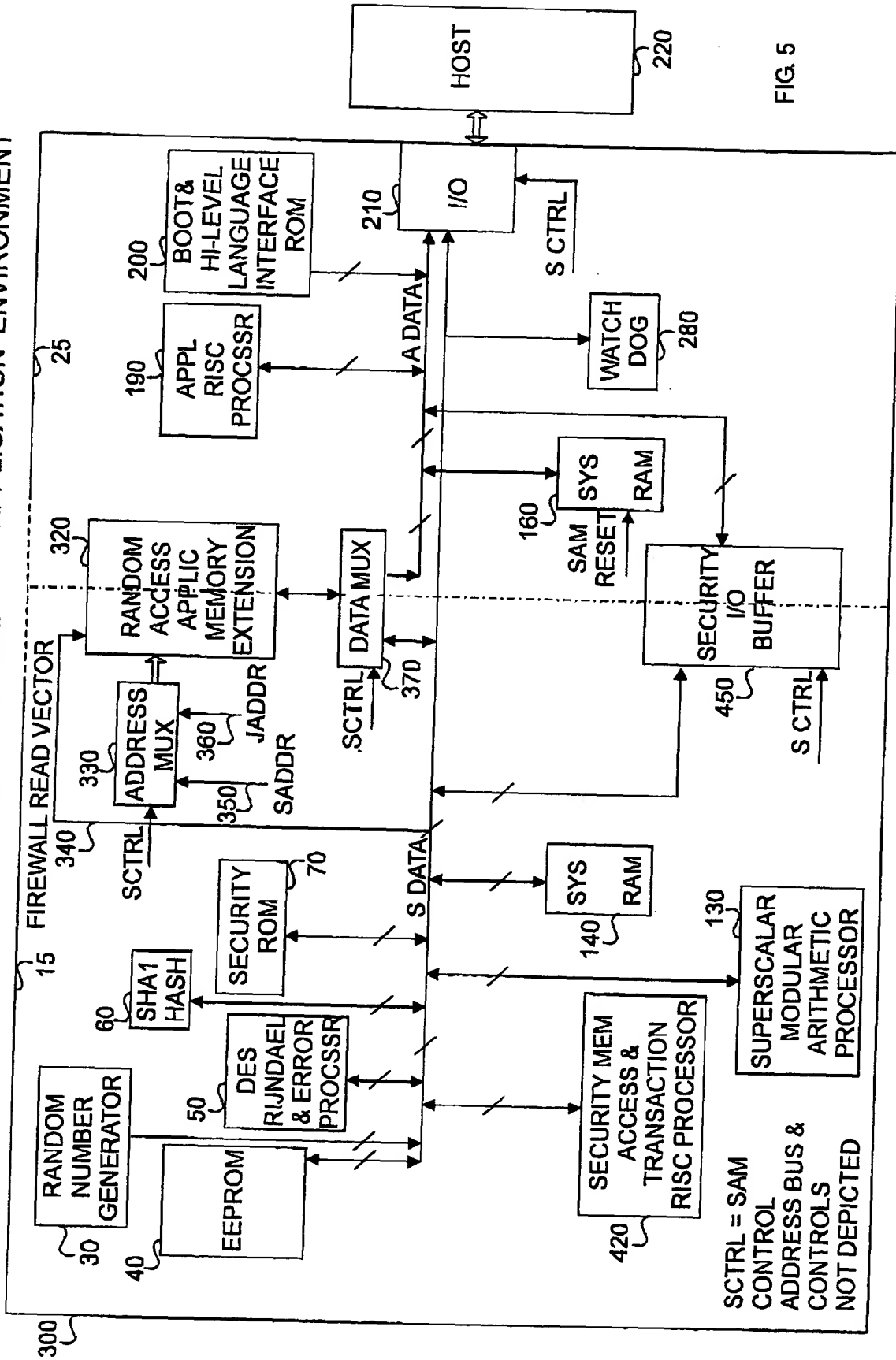
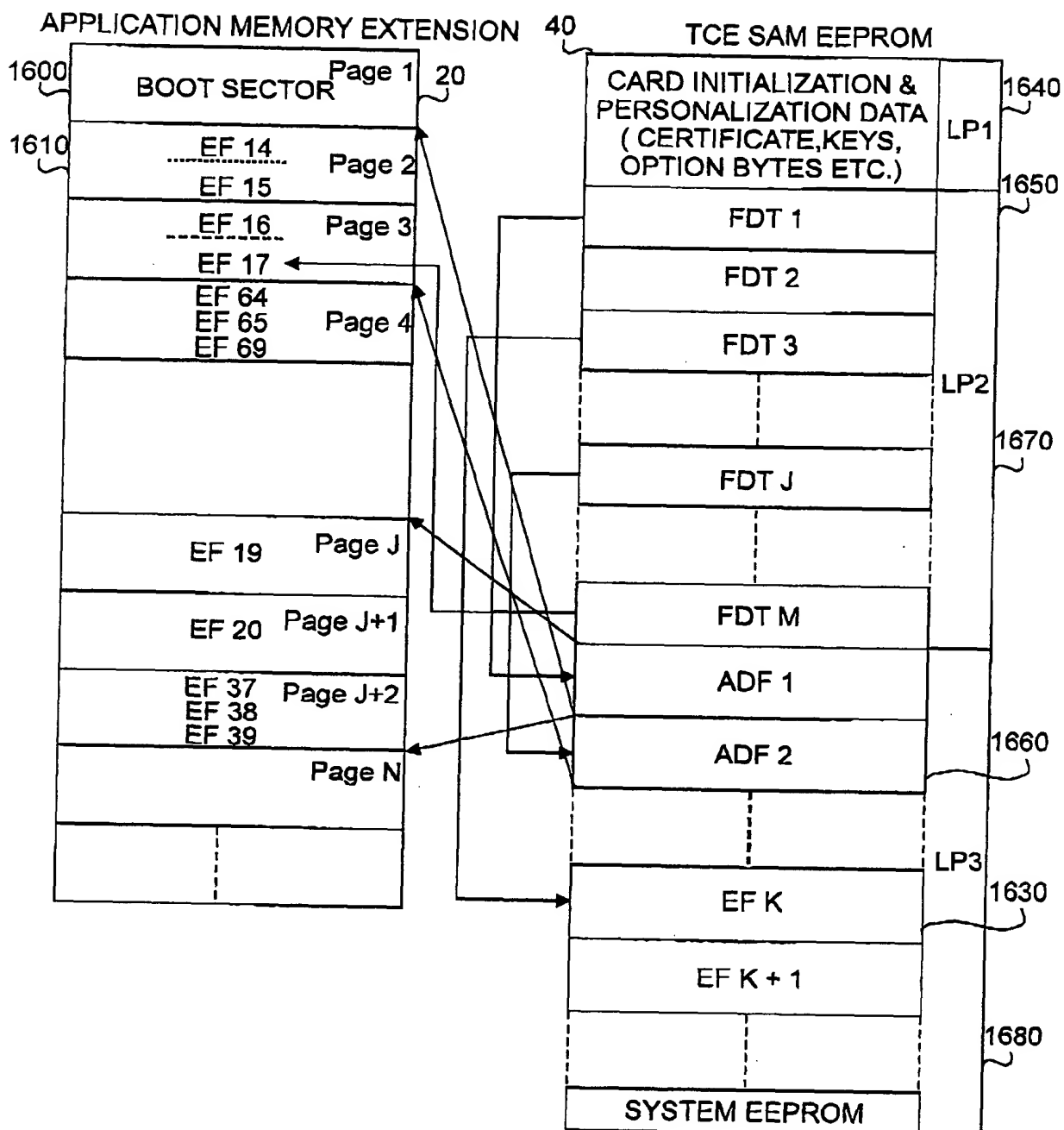


FIG. 5

1600 1610 20 40 1640 1650 1670 1660 1630 1680



**LEGEND:**  
 FDT - FILE DEFINITION TABLE  
 ADF - APPLICATION DEFINITION FILE  
 EF - ELEMENTARY FILE  
 LPn - n'th LOGIC PARTITION

FIG. 6

**DYNAMIC SERIAL**  
**READ BLOCK**  
**FIREWALL**  
**SELECT**

LOAD BY SAM  
RISC FROM FAT  
POINTERS

MS SR 700

MS BLOCK  
SELECT

MS - 1 SR 710

MS - 1 BLOCK  
SELECT

J SR 720

J BLOCK  
SELECT

J - 1 SR 730

J - 1 BLOCK  
SELECT

0 SR 740

0 BLOCK  
SELECT

MS'th  
READ BLOCK  
ENABLE

(MS - 1)'th  
READ BLOCK  
ENABLE

J'th  
READ BLOCK  
ENABLE

(J - 1)'th  
READ BLOCK  
ENABLE

0'th  
READ BLOCK  
ENABLE

MS BLOCK 600

MS - 1 BLOCK 610

J BLOCK 620

J - 1 BLOCK 630

0 BLOCK 640

690

READ  
DISABLED  
BLOCKS

FIRE  
WALLED  
READ  
ENABLED  
BLOCKS

READ  
DISABLED  
BLOCKS

**READ ENABLE FOR APPLICATION & SAM**  
**WRITE ENABLE TO SAM ONLY**

FIG. 7

FIG. 7

## AUTHENTICATION PROCESS & FILE ACCESS

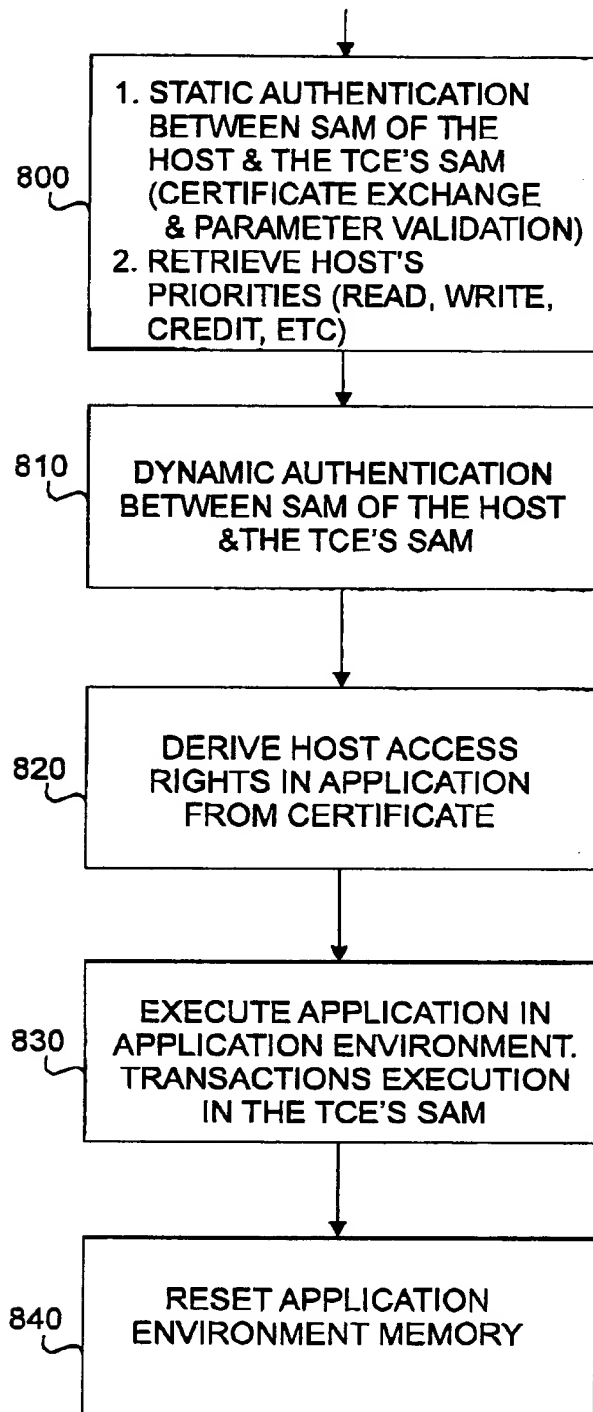


FIG. 8



# ENCAPSULATED SECURITY APPLICATION MODULE - SAM APPLICATION ENVIRONMENT

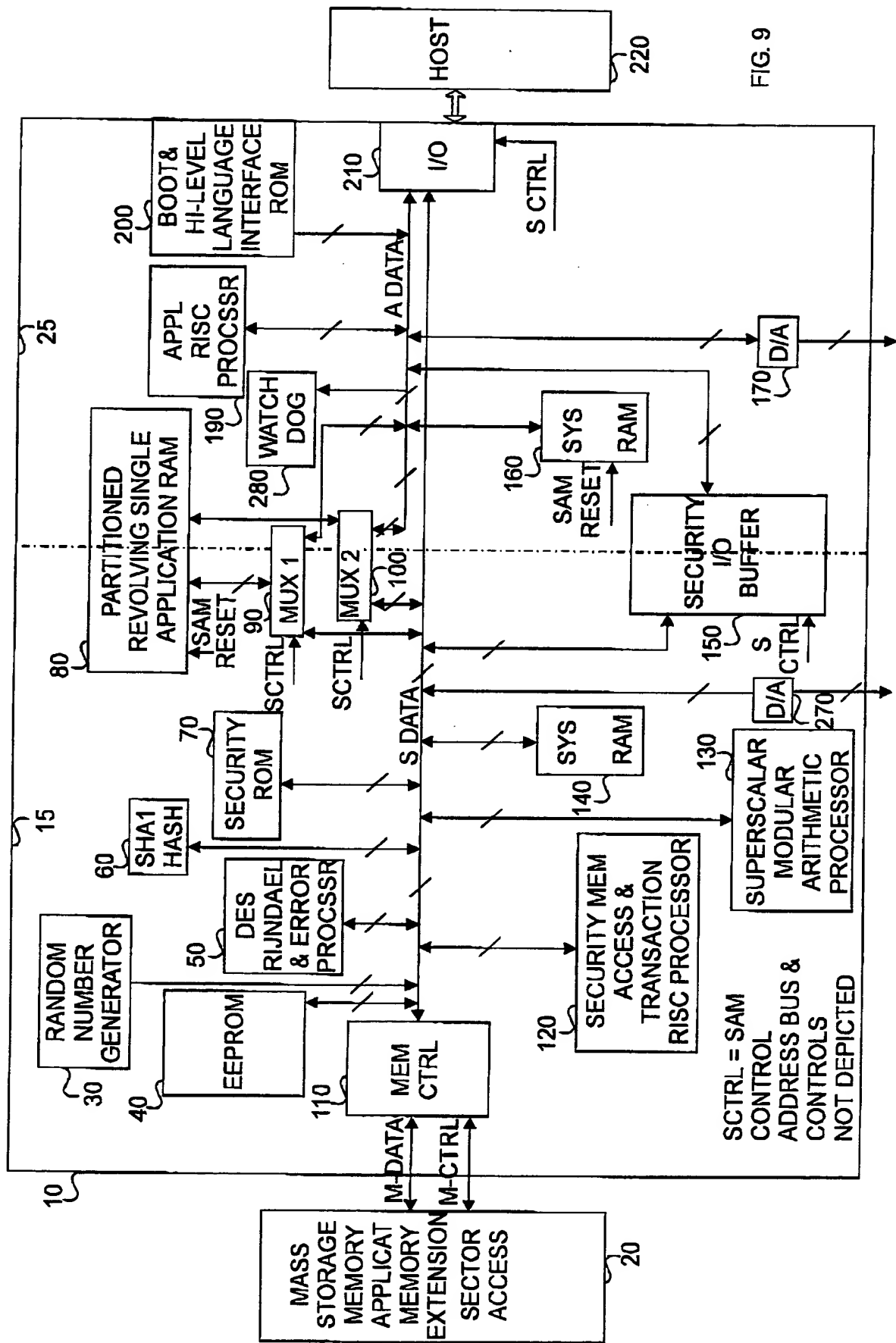


FIG. 9

# ENCAPSULATED SECURITY APPLICATION MODULE - SAM APPLICATION ENVIRONMENT

